

Full Performance Amplifiers

T-74-09-01

Available in 4 Pin TO-8 (TM), 4 Pin TO-8B (TR), Flatpacks, Surface Mount Packages and Connectorized Housings

(Listed by increasing Frequency, Noise Figure, and Power)

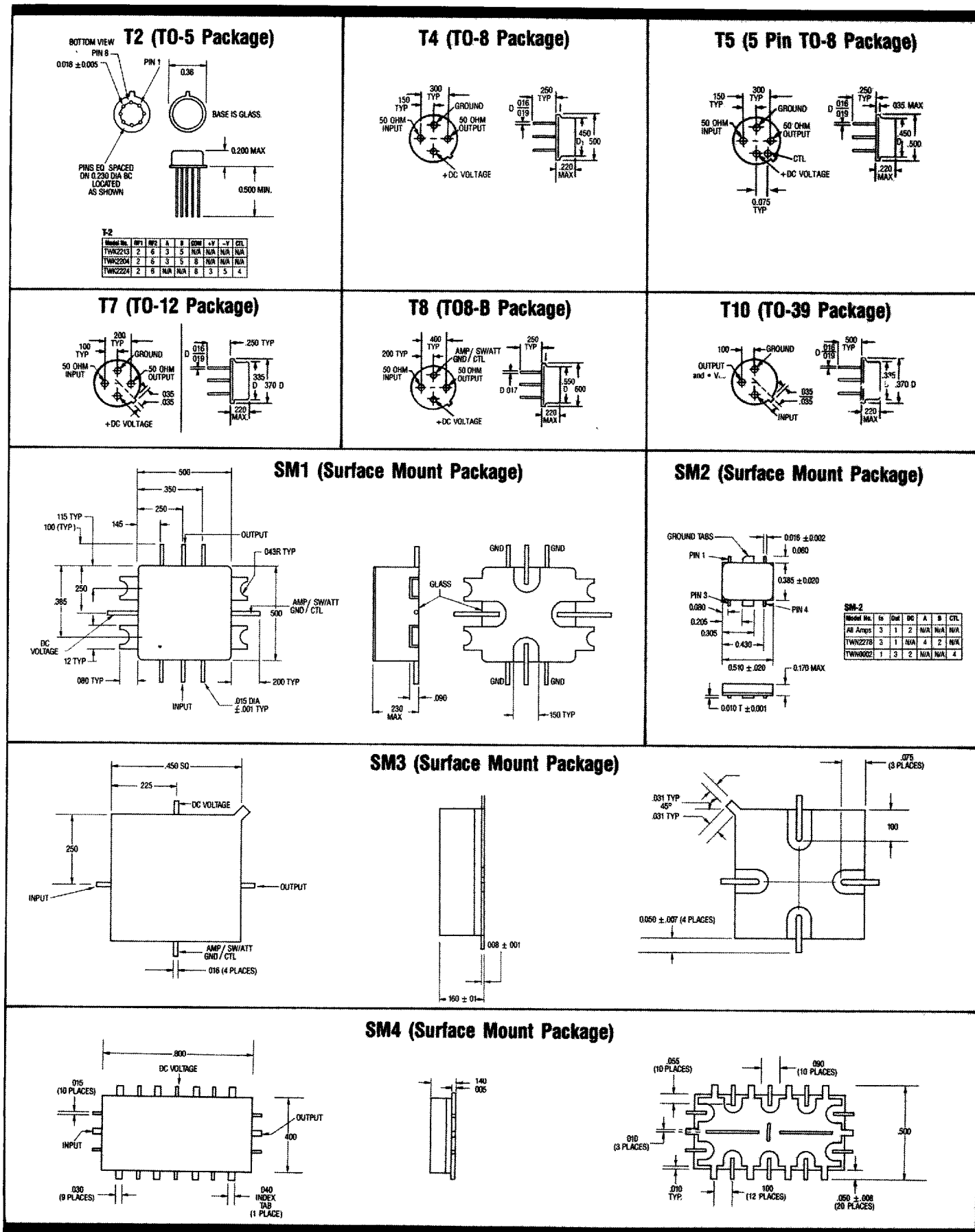
B-74-09-51

Model No.	Freq. Range (MHz)	Gain (dB)		Noise Figure (dB)		Power Output (dBm)		Third Order Intercept Point Typ (dBm)	VSWR MAX In/Out	Power Typ	
		Typ	Min	Typ	Max	Typ	Min			Vdc	mA
TR6476	10-450	29.0	28.0	2.7	3.5	+16.0	+11.0	+29	2.0:1	+ 8	65
TM6588	5-450	18.5	17.5	4.5	6.0	+21.0	+19.0	+35	2.0:1	+15	80
*TM6719	5-500	33.0	31.0	1.7	2.0	+ 9.5	+ 8.0	+19	2.0:1	+15	35
TM6143	5-500	15.8	15.0	1.6	2.5	+ 7.5	+ 5.0	+20	2.0:1	+15	14.5
TR7216	20-500	24.5	24.0	2.2	2.5	+19.5	+18.0	+33.5	2.0:1	+12	60
*TM6210	5-500	15.3	14.0	1.8	3.0	+ 7.5	+ 4.5	+18	2.0:1	+ 5	12
*TM5519	5-500	15.0	14.0	2.25	3.0	+14.5	+11.5	+29	2.0:1	+ 5	35
TM5119	5-500	15.5	14.0	2.3	3.0	+16.0	+14.0	+32	2.0:1	+15	30
TM6674	5-500	28.5	26.0	2.2	3.5	- 1.0	- 3.0	+ 9	2.0:1	+15	13.5
TM6573	5-500	32.0	29.0	2.5	3.5	+ 2.0	- 2.5	+14	2.0:1	+15	20
TM6501	5-500	16.5	15.5	2.5	3.5	+ 3.0	+ 1.0	+15	2.0:1	+15	10
TM6675	10-500	20.5	19.0	2.7	3.5	+ 4.5	+ 2.0	+15	2.0:1	+15	15
TM6512	5-500	21.0	19.0	2.5	3.5	+10.0	+ 8.0	+21	2.0:1	+15	23
TM6575	5-500	21.0	19.0	2.4	3.5	+ 9.5	+ 8.5	+21	2.0:1	+15	23
TM6517	5-500	22.7	21.0	2.4	3.5	+ 9.5	+ 8.5	+21	2.0:1	+15	22
*TM5544	10-500	12.5	11.0	2.5	3.5	+14.0	+12.0	+28	2.0:1	+ 5	35
TM6544	10-500	12.0	10.5	2.0	3.5	+15.0	+13.0	+32	2.0:1	+15	35
TM6583	10-500	30.0	28.0	2.3	4.0	0.0	- 4.0	+11	2.0:1	+ 5	13
*TM5101	5-500	13.0	12.0	2.75	4.0	+ 7.5	+ 6.0	+21	2.0:1	+15	20
TM6681	10-500	17.5	15.5	3.0	4.0	+ 9.5	+ 7.0	+23	2.0:1	+15	32
TM6524	5-500	30.5	28.5	3.0	4.0	+15.0	+14.0	+23	2.0:1	+15	65
TR6689	5-500	30.0	28.0	3.2	4.0	+21.5	+20.0	+34	2.0:1	+15	130
TR6676	10-500	40.5	37.5	3.0	4.3	+15.2	+13.1	+26	2.0:1	+15	77
TM6581	20-500	22.0	21.0	3.2	4.5	+16.0	+13.5	+28	2.0:1	+15	27
TM6674	5-500	28.5	26.0	2.2	3.5	- 1.0	- 3.0	+9	2.0:1	+15	13.5
*TM5133	10-500	10.0	9.0	3.3	4.5	+16.0	+14.5	+30	2.0:1	+15	57
*TM6582	30-500	23.0	21.0	3.5	4.5	+21.0	+17.0	+33	2.0:1	+15	47
TM6505	5-500	15.0	14.0	4.0	5.0	+10.0	+ 8.5	+23	2.0:1	+15	24
TM6533	5-500	16.5	15.0	3.5	5.0	+17.5	+16.5	+33	2.0:1	+15	50
TM6577	5-500	16.5	15.0	3.5	5.0	+17.5	+16.5	+33	2.0:1	+15	50
TR6589	5-500	26.5	25.0	3.8	5.0	+22.0	+20.0	+35	2.0:1	+15	130
TM6555	5-500	14.7	14.0	4.0	5.5	+11.5	+10.0	+25	2.0:1	+15	30
TM6572	5-500	14.7	13.5	4.0	5.5	+13.0	+11.0	+27	2.0:1	+ 5	30
TM6672	5-500	14.7	13.5	4.0	5.5	+13.0	+11.0	+27	2.0:1	+ 9	30
TM6147	5-500	17.0	16.0	3.5	5.5	+19.5	+17.5	+25	2.0:1	+15	50
TM6545	10-500	11.5	10.0	4.0	5.5	+19.0	+18.0	+36	2.0:1	+15	60
TM6574	5-500	30.0	27.0	4.8	6.0	+ 9.0	+ 7.0	+22	2.0:1	+15	37
TM6607	5-500	15.2	14.0	4.8	6.0	+15.0	+13.0	+27	2.0:1	+15	50
TR6776	1-520	30.0	26.0	4.1	6.0	+16.0	+13.5	+28	2.0:1	+15	65
TM6523	5-500	25.5	24.0	4.0	6.0	+16.0	+14.0	+30	2.0:1	+15	75
TM6576	5-500	28.0	26.0	5.0	6.0	+16.0	+14.0	+30	2.0:1	+15	64
*TM6509	5-500	14.5	13.0	4.6	6.0	+23.0	+20.0	+36	2.0:1	+15	88
TM6518	5-500	13.7	12.0	4.5	6.0	+25.0	+22.0	+35	2.0:1	+15	130
TM6557	10-500	15.0	13.5	4.5	6.5	+15.5	+14.0	+30	2.0:1	+15	44
TM6558	5-500	12.0	10.5	4.8	6.5	+19.0	+17.5	+36	2.0:1	+15	65
TM6131	5-500	10.3	9.0	4.5	6.5	+20.0	+18.0	+37	2.0:1	+15	62
TM6503	5-500	9.5	7.0	5.5	7.0	+15.0	+13.0	+33	2.0:1	+24	50
*TM6603	5-500	10.0	8.5	5.5	7.0	+15.5	+14.0	+30	2.0:1	+24	50
TM6559	5-500	11.5	10.0	5.5	7.0	+22.0	+20.0	+36	2.0:1	+15	88
TM6203	5-500	14.5	13.0	5.5	7.5	+25.0	+22.5	+36	2.0:1	+15	127
TM6507	10-500	15.5	14.0	6.0	8.0	+22.0	+20.0	+36	2.0:1	+15	110
*TM6605	10-600	15.7	13.5	3.0	4.5	+11.0	+ 7.0	+21	2.0:1	+15	24
TM9167	10-800	12.5	11.0	4.2	5.5	+15.5	+14.0	+29	2.0:1	+15	32
TM9118	10-800	14.7	13.5	4.4	5.5	+15.0	+14.5	+29	2.0:1	+15	45

*New Product

Outline Drawings

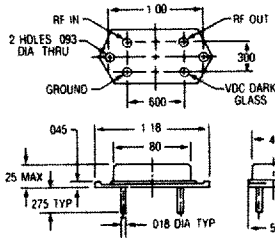
All unmarked Pins are internally grounded.



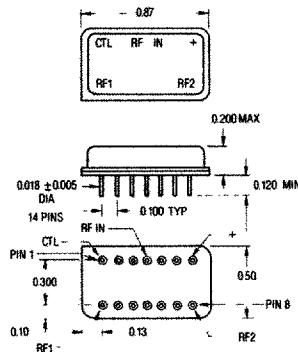
Outline Drawings

All unmarked Pins are internally grounded.

DP1 (Dip)



DP3 (Dip)

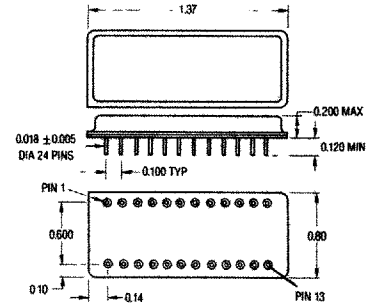


DP-3

Model No.	CTL	RF1	RF2	+V	CTL
ALL	4	14	8	7	1
TWDS001 ONLY	4	14	8	3	5

RF 2 not used on SPST Switches
+V = +5 Vdc

DP5 (Dip)



DP-5 Switches

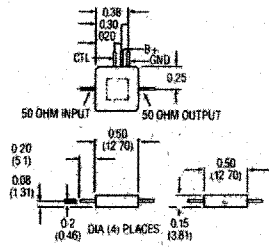
Model No.	CTL	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	CTL	CTL	CTL	CTL	+	-
TAD5003	7	1	24	13	12	N/A	N/A	N/A	N/A	21	20	17	16	N/A	N/A
TAD5004	7	1	24	13	12	N/A	N/A	N/A	N/A	20	19	16	17	21	16
TAD5005	19	1	3	10	12	13	15	22	24	5	6	7	N/A	8	17

DP-5 Digital Attenuators

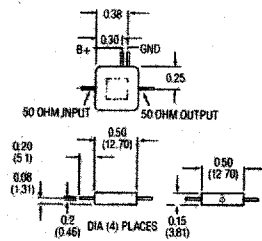
Model No.	RF Input	RF Output	dB	1.5	1.8	2.8	4.8	6.8	8.8	10.16	14	24	32	48	64	96	128	192	256	384	512	768	1024	1536	2048	3072	4096	6144	8192	12288	16384	24576	32768	49152	65536	98304	131072	196608	262144	393216	524288	786432	1048576	1572864	2097152	3145728	4194304	6291456	8388608	12582912	16777216	25165824	33554432	50332672	67110912	100666368	134221824	201332736	268443648	402665472	536887296	805330944	1073774592	1610661888	2147549184	3221323776	4295098368	6442647040	8590195712	12885283328	17180370944	25770553728	34360736512	51541107200	68721478848	102602240000	136482991360	204724482560	273026304000	409539456000	546052608000	819079296000	1086097472000	1629146201600	2172194931200	3259243660800	4346292390400	6519438572800	8692584755200	13038877132800	17385169510400	26072754272000	34760339033600	52140508800000	69520678560000	104281024000000	139041369600000	208562048000000	278082726400000	417124096000000	556165465600000	834248256000000	1112331046400000	1668496384000000	2224661728000000	3336992640000000	4449323520000000	6673985280000000	8898647040000000	13347974400000000	17797301760000000	26695953280000000	35594604800000000	53391910400000000	71189216000000000	106783872000000000	142378528000000000	213567744000000000	284756960000000000	427135488000000000	569514009600000000	854271040000000000	1139028080000000000	1708542720000000000	2278057360000000000	3417086976000000000	4556116544000000000	6834687200000000000	9113257856000000000	13669888000000000000	18226518400000000000	27339776000000000000	36453033600000000000	54679680000000000000	72906326400000000000	109359488000000000000	145812640000000000000	218719104000000000000	291625568000000000000	437438400000000000000	583251200000000000000	874876800000000000000	1166502400000000000000	1749753600000000000000	2333004800000000000000	3500256000000000000000	4667507200000000000000	6951264000000000000000	9235020800000000000000	13852531200000000000000	18470041600000000000000	27705062400000000000000	36940083200000000000000	55380160000000000000000	73820236800000000000000	110730368000000000000000	147640496000000000000000	221460736000000000000000	295280976000000000000000	442921216000000000000000	590561456000000000000000	878202240000000000000000	1165843008000000000000000	1748594560000000000000000	2331346080000000000000000	3498598400000000000000000	4665850880000000000000000	6949608320000000000000000	9233365760000000000000000	13850876160000000000000000	18468386560000000000000000	27703407360000000000000000	36938428160000000000000000	55378502400000000000000000	73818577600000000000000000	110728704000000000000000000	147638832000000000000000000	221459072000000000000000000	295279312000000000000000000	442929552000000000000000000	590579792000000000000000000	878230032000000000000000000	1165880272000000000000000000	1748631808000000000000000000	2331383328000000000000000000	3498635712000000000000000000	4665888096000000000000000000	6949645440000000000000000000	9233402880000000000000000000	13850913280000000000000000000	18468423680000000000000000000	27703444480000000000000000000	36938465280000000000000000000	55378539200000000000000000000	73818614400000000000000000000	110728240000000000000000000000	147638368000000000000000000000	221458608000000000000000000000	295278848000000000000000000000	442929088000000000000000000000	590579328000000000000000000000	878230064000000000000000000000	1165880304000000000000000000000	1748631840000000000000000000000	2331383360000000000000000000000	3498635744000000000000000000000	4665888128000000000000000000000	6949645504000000000000000000000	9233402944000000000000000000000	13850913344000000000000000000000	18468423744000000000000000000000	27703444544000000000000000000000	36938465344000000000000000000000	55378539344000000000000000000000	73818614544000000000000000000000	110728241440000000000000000000000	147638369440000000000000000000000	221458609440000000000000000000000	295278849440000000000000000000000	442929089440000000000000000000000	590579329440000000000000000000000	878230064400000000000000000000000	1165880304400000000000000000000000	1748631844000000000000000000000000	2331383364000000000000000000000000	3498635744400000000000000000000000	4665888128400000000000000000000000	6949645504400000000000000000000000	9233402944400000000000000000000000	13850913344400000000000000000000000	18468423744400000000000000000000000	27703444544400000000000000000000000	36938465344400000000000000000000000	55378539344400000000000000000000000	73818614544400000000000000000000000	110728241444000000000000000000000000	147638369444000000000000000000000000	221458609444000000000000000000000000	295278849444000000000000000000000000	442929089444000000000000000000000000	590579329444000000000000000000000000	878230064440000000000000000000000000	1165880304440000000000000000000000000	17486318444000000000000000000000000000	23313833644000000000000000000000000000	34986357444400000000000000000000000000	46658881284400000000000000000000000000	69496455044400000000000000000000000000	92334029444400000000000000000000000000	138509133444400000000000000000000000000	184684237444400000000000000000000000000	277034445444400000000000000000000000000	369384653444400000000000000000000000000	553785393444400000000000000000000000000	738186145444400000000000000000000000000	1107282414444000000000000000000000000000	1476383694444000000000000000000000000000	2214586094444000000000000000000000000000	2952788494444000000000000000000000000000	4429290894444000000000000000000000000000	5905793294444000000000000000000000000000	8782300644440000000000000000000000000000	11658803044440000000000000000000000000000	17486318444400000000000000000000000000000	23313833644400000000000000000000000000000	34986357444400000000000000000000000000000	46658881284400000000000000000000000000000	69496455044400000000000000000000000000000	92334029444400000000000000000000000000000	138509133444400000000000000000000000000000	184684237444400000000000000000000000000000	277034445444400000000000000000000000000000	369384653444400000000000000000000000000000	553785393444400000000000000000000000000000	738186145444400000000000000000000000000000	1107282414444000000000000000000000000000000	1476383694444000000000000000000000000000000	2214586094444000000000000000000000000000000	2952788494444000000000000000000000000000000	4429290894444000000000000000000000000000000	5905793294444000000000000000000000000000000	8782300644440000000000000000000000000000000	11658803044440000000000000000000000000000000	17486318444400000000000000000000000000000000	23313833644400000000000000000000000000000000	34986357444400000000000000000000000000000000	46658881284400000000000000000000000000000000	69496455044400000000000000000000000000000000	92334029444400000000000000000000000000000000	138509133444400000000000000000000000000000000	184684237444400000000000000000000000000000000	277034445444400000000000000000000000000000000	369384653444400000000000000000000000000000000	553785393444400000000000000000000000000000000	738186145444400000000000000000000000000000000	1107282414444000000000000000000000000000000000	1476383694444000000000000000000000000000000000	2214586094444000000000000000000000000000000000	2952788494444000000000000000000000000000000000	4429290894444000000000000000000000000000000000	5905793294444000000000000000000000000000000000	8782300644440000000000000000000000000000000000	11658803044440000000000000000000000000000000000	17486318444400000000000000000000000000000000000	23313833644400000000000000000000000000000000000	34986357444400000000000000000000000000000000000	46658881284400000000000000000000000000000000000	69496455044400000000000000000000000000000000000	92334029444400000000000000000000000000000000000	138509133444400000000000000000000000000000000000	184684237444400000000000000000000000000000000000	277034445444400000000000000000000000000000000000	369384653444400000000000000000000000000000000000	553785393444400000000000000000000000000000000000	738186145444400000000000000000000000000000000000	1107282414444000000000000000000000000000000000000	1476383694444000000000000000000000000000000000000	2214586094444000000000000000000000000000000000000	2952788494444000000000000000000000000000000000000	4429290894444000000000000000000000000000000000000	5905793294444000000000000000000000000000000000000	8782300644440000000000000000000000000000000000000	11658803044440000000000000000000000000000000000000	17486318444400000000000000000000000000000000000000	23313833644400000000000000000000000000000000000000	34986357444400000000000000000000000000000000000000	46658881284400000000000000000000000000000000000000	69496455044400000000000000000000000000000000000000	92334029444400000000000000000000000000000000000000	138509133444400000000000000000000000000000000000000	184684237444400000000000000000000000000000000000000	277034445444400000000000000000000000000000000000000	369384653444400000000000000000000000000000000000000	553785393444400000000000000000000000000000000000000	738186145444400000000000000000000000000000000000000	1107282414444000000000000000000000000000000000000000	1476383694444000000000000000000000000000000000000000	2214586094444000000000000000000000000000000000000000	2952788494444000000000000000000000000000000000000000	4429290894444000000000000000000000000000000000000000	5905793294444000000000000000000000000000000000000000	87823006444400	116588030444400	174863184444000	233138336444000	349863574444000	466588812844000	694964550444000	923340294444000	1385091334444000	1846842374444000	2770344454444000	3693846534444000	5537853934444000	7381861454444000	110728241444400	147638369444400	221458609444400	295278849444400	442929089444400	590579329444400	878230064444000	1165880304444000	17486318444400	23313833644400	34986357444400	46658881284400	69496455044400	92334029444400	138509133444400	184684237444400000000000000000000000
-----------	----------	-----------	----	-----	-----	-----	-----	-----	-----	-------	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	-------	-------	-------	-------	-------	-------	-------	--------	--------	--------	--------	--------	--------	---------	---------	---------	---------	---------	---------	---------	----------	----------	----------	----------	----------	----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	------------	------------	------------	------------	------------	------------	------------	-------------	-------------	-------------	-------------	-------------	-------------	--------------	--------------	--------------	--------------	--------------	--------------	--------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	----------------	----------------	----------------	----------------	----------------	----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	-----------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	-----------------------	-----------------------	-----------------------	-----------------------	-----------------------	-----------------------	-----------------------	------------------------	------------------------	------------------------	------------------------	------------------------	------------------------	------------------------	-------------------------	-------------------------	-------------------------	-------------------------	-------------------------	-------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	---------------------------	---------------------------	---------------------------	---------------------------	---------------------------	---------------------------	---------------------------	----------------------------	----------------------------	----------------------------	----------------------------	----------------------------	----------------------------	-----------------------------	-----------------------------	-----------------------------	-----------------------------	-----------------------------	-----------------------------	-----------------------------	------------------------------	------------------------------	------------------------------	------------------------------	------------------------------	------------------------------	------------------------------	-------------------------------	-------------------------------	-------------------------------	-------------------------------	-------------------------------	-------------------------------	--------------------------------	--------------------------------	--------------------------------	--------------------------------	--------------------------------	--------------------------------	--------------------------------	---------------------------------	---------------------------------	---------------------------------	---------------------------------	---------------------------------	---------------------------------	---------------------------------	----------------------------------	----------------------------------	----------------------------------	----------------------------------	----------------------------------	----------------------------------	-----------------------------------	-----------------------------------	-----------------------------------	-----------------------------------	-----------------------------------	-----------------------------------	-----------------------------------	------------------------------------	------------------------------------	------------------------------------	------------------------------------	------------------------------------	------------------------------------	------------------------------------	-------------------------------------	-------------------------------------	-------------------------------------	-------------------------------------	-------------------------------------	-------------------------------------	--------------------------------------	--------------------------------------	--------------------------------------	--------------------------------------	--------------------------------------	--------------------------------------	--------------------------------------	---------------------------------------	--	--	--	--	--	--	---	---	---	---	---	---	--	--	--	--	--	--	--	---	---	---	---	---	---	---	--	--	--	--	--	--	---	---	---	---	---	---	---	--	--	--	--	--	--	--	---	---	---	---	---	---	--	--	--	--	--	--	--	---	---	---	---	---	---	---	--	--	--	--	--	--	---	---	---	---	---	---	---	--	--	--	--	--	--	--	---	---	---	---	---	---	--	--	--	--	--	--	--	---	---	---	---	---	---	---	--	--	--	--	--	--	---	---	---	---	---	---	---	--	--	--	--	--	--	--	---	--------------------------------------

Outline Drawings *All unmarked Pins are internally grounded.*

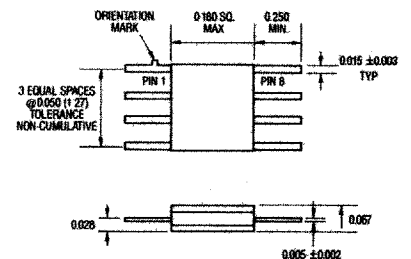
FP2 (Flatpack)



FP4 (Flatpack)



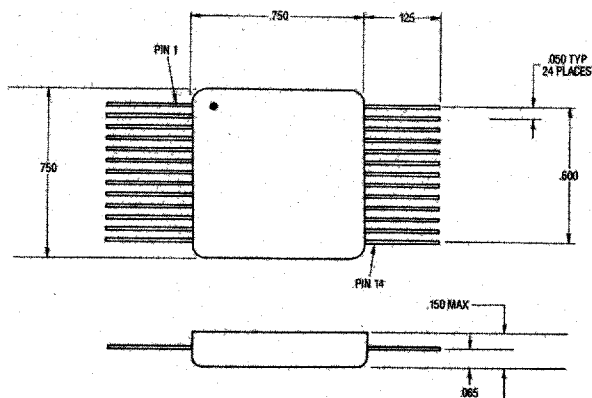
FP7 (Flatpack)



FP-7
PIN CONFIGURATION:

Model No.	RF CODE	RF1	RF2	A	B
SPST	N/A	8	5	2	3
SPDT	1	3	6	4	5

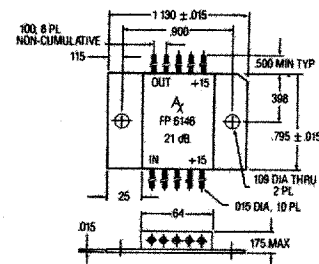
FP9 (Flatpack)



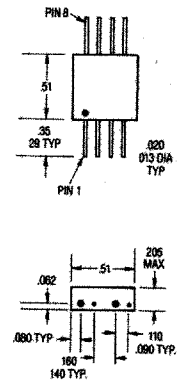
FP-9

Model No.	COM	RF1	RF2	RF3	RF4	RF5	RF6	RF7	-V	CTL 1	CTL 2	CTL 3
TWP6004	7	14	16	18	20	22	24	26	13	3	4	5

FP10 (Flatpack)



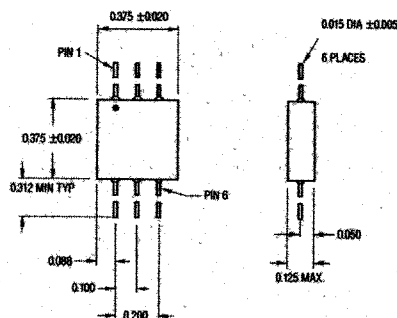
FP11 (Flatpack)



FP-1

	Out	$V_{T,pm}$	V_+
VCOs	7	3	1

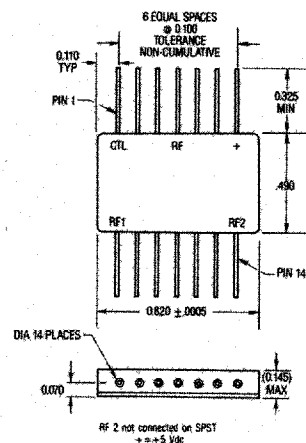
FP12 (Flatpack)



FP-12

Model No	RF1	RF2	COM	A	B	+S	-S	UTL
TWP2214	2	4	N/A	1	3	N/A	N/A	N/A
TWP2202	4	6	2	1	3	N/A	N/A	N/A
TWP2225	4	6	2	N/A	N/A	1	3	4

FP13 (Flatpack)



FP14 (Flatpack)

